

Version Marked to Show Changes

- 1 1. (Amended) A method for locating and classifying information sources in response
2 to a query, the method comprising:
- 3 (a) providing a knowledge representation graph structure of the query to a
4 retrieval engine that locates a collection of information sources and
5 generates an information source knowledge representation graph
6 structure of each located information source in the collection; and
- 7 (b) matching the query knowledge representation graph structure to the
8 information source knowledge representation graph structures obtained in
9 step (a) to generate a graph containment hierarchy of supergraph
10 structures and subgraph structures in which each of the supergraph
11 structures and subgraph structures corresponds to at least one
12 information source.
- 1 5. (Amended) The method according to claim 1 wherein step (b) comprises
2 displaying the supergraph structures and subgraph structures in the graph
3 containment hierarchy.
- 1 7. (Amended) The method according to claim 1 wherein step (b) comprises
2 displaying the graph containment hierarchy and identifying information for each
3 information source.
- 1 17. (Amended) Apparatus for locating and classifying information sources in
2 response to a query, the apparatus comprising:
3 a retrieval engine that receives a knowledge representation graph
4 structure of the query and, in response thereto, locates a collection of information
5 sources and generates an information source knowledge representation graph
6 structure of each located information source in the collection; and

7 a graph matching processor that matches the query knowledge
8 representation graph structure to the information source knowledge
9 representation graph structures obtained by the retrieval engine to generate a
10 graph containment hierarchy of supergraph structures and subgraph structures in
11 which each of the supergraph structures and subgraph structures corresponds to
12 at least one information source.

1 21. (Amended) The apparatus according to claim 17 further comprising a graphical
2 user interface that displays the supergraph structures and subgraph structures in
3 the graph containment hierarchy.

1 23. (Amended) The apparatus according to claim 17 further comprising a graphical
2 user interface that displays the graph containment hierarchy and identifying
3 information for each information source.

1 33. (Amended) A computer program product for locating and classifying information
2 sources in response to a query, the computer program product comprising a
3 computer usable medium having computer readable program code thereon,
4 including:

5 program code for providing a knowledge representation graph structure of
6 the query to a retrieval engine that locates a collection of information sources and
7 generates an information source knowledge representation graph structure of
8 each located information source in the collection; and

9 program code for matching the query knowledge representation graph
10 structure to the information source knowledge representation graph structures
11 obtained in step (a) to generate a graph containment hierarchy of supergraph
12 structures and subgraph structures in which each of the supergraph structures
13 and subgraph structures corresponds to at least one information source.

1 35. (Amended) A computer data signal embodied in a carrier wave for locating and
2 classifying information sources in response to a query, the computer data signal
3 comprising:
4 program code for providing a knowledge representation graph structure of
5 the query to a retrieval engine that locates a collection of information sources and
6 generates an information source knowledge representation graph structure of
7 each located information source in the collection; and
8 program code for matching the query knowledge representation graph
9 structure to the information source knowledge representation graph structures
10 obtained in step (a) to generate a graph containment hierarchy of supergraph
11 structures and subgraph structures in which each of the supergraph structures
12 and subgraph structures corresponds to at least one information source.